



Reducing Ozone Transport A Shared Responsibility

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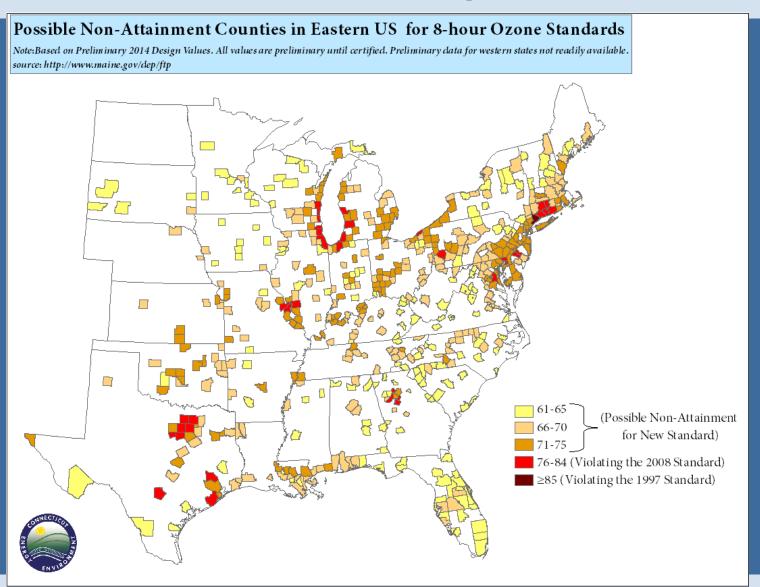
Agenda

- Ozone Transport Regional challenge
- A Closer look at an Ozone episode
- The need to "level the playing field"

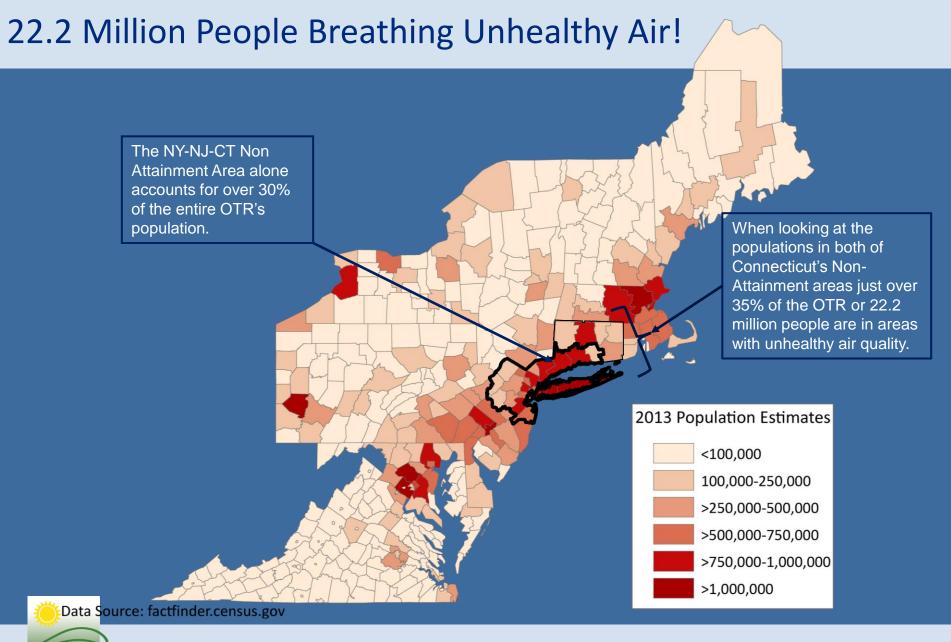
Next Steps



Region's Air Pollution Challenge: Ozone

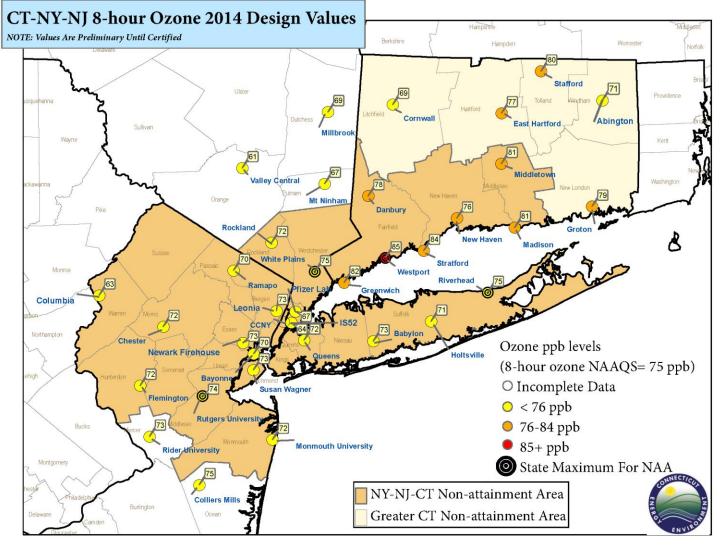








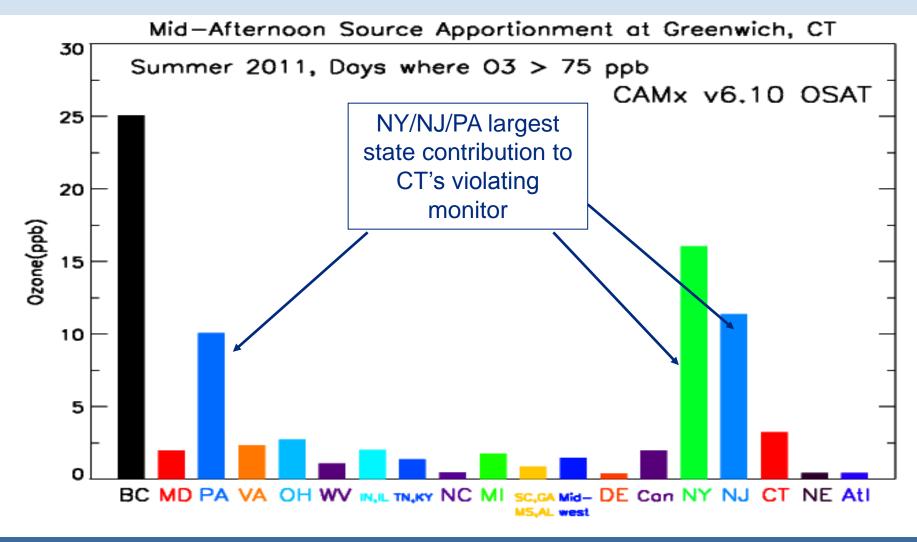
A Closer Look at Ozone Levels





Revised October 7, 2014

States' Contribution to a Violating Monitor in CT





Analysis of an Ozone Episode in 2012



High Electric Demand Day Emissions

- High electric demand day emissions are part of the persistent ozone attainment problems in the OTC
 - High NOx emissions at a time with the highest ozone forming potential.
 - Reductions are a key to attaining the ozone NAAQS.

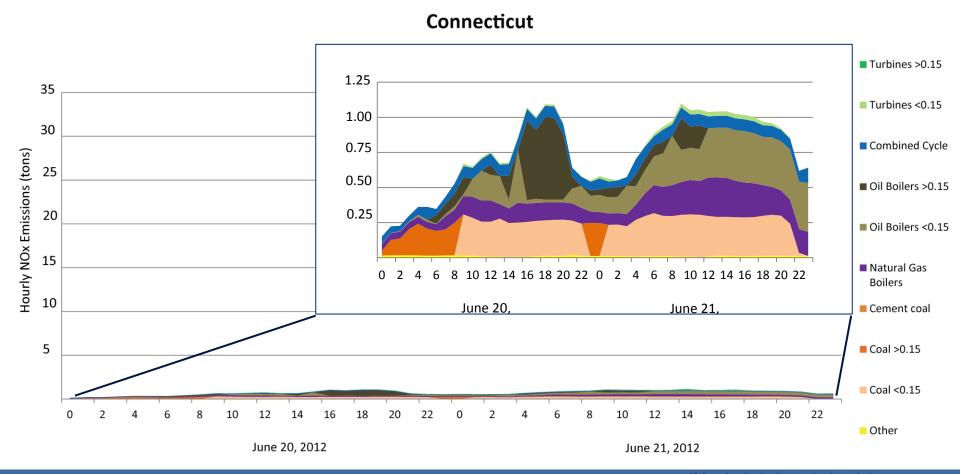
- High electric demand day units
 - Smaller units (e.g., aeroderivative turbines, load-following boilers) are a big contributor to total EGU emissions on high demand days.

Nature of peak day emissions differs from state to state



Connecticut must address oil fired boiler emissions

Peak EGU* hourly emissions, ~1 ton

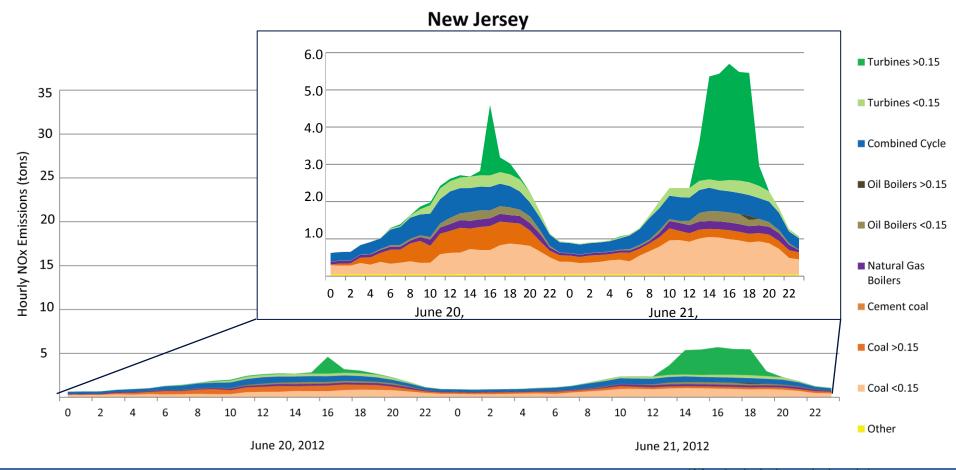




*May include large industrial sources Data Source: http://ampd.epa.gov/ampd/

New Jersey's HEDD rule addresses the peak in 2015

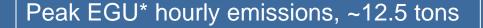
Peak EGU* hourly emissions, ~5 tons

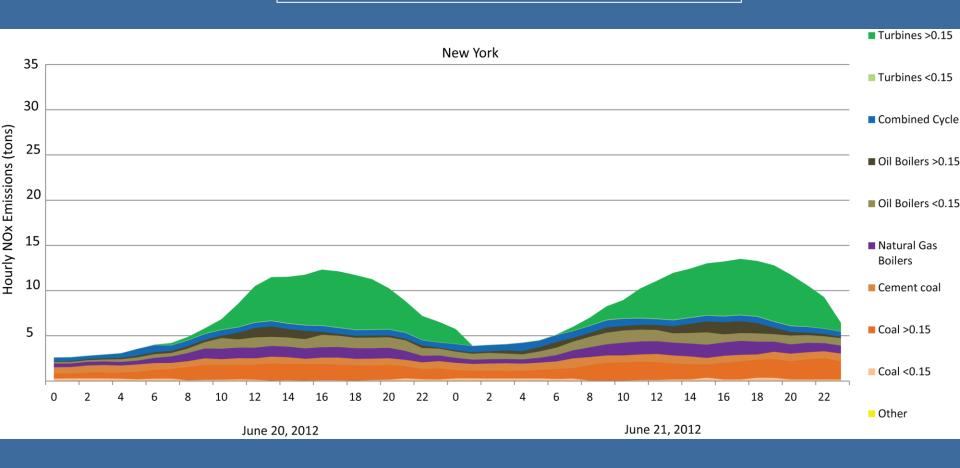




*May include large industrial sources Data Source: http://ampd.epa.gov/ampd/

New York must address combustion turbine emissions



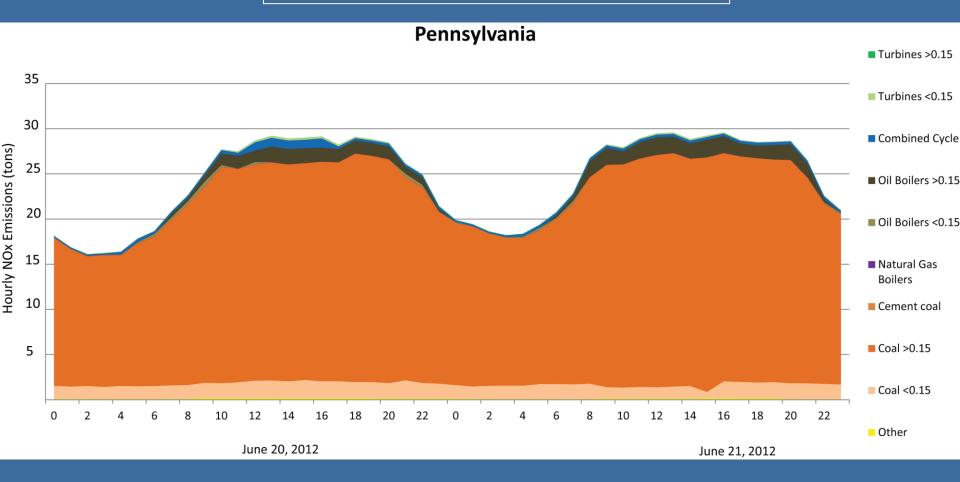




*May include large industrial sources
Data Source: http://ampd.epa.gov/ampd/

Pennsylvania must address emissions from coal firing

Peak EGU* hourly emissions, ~30 tons



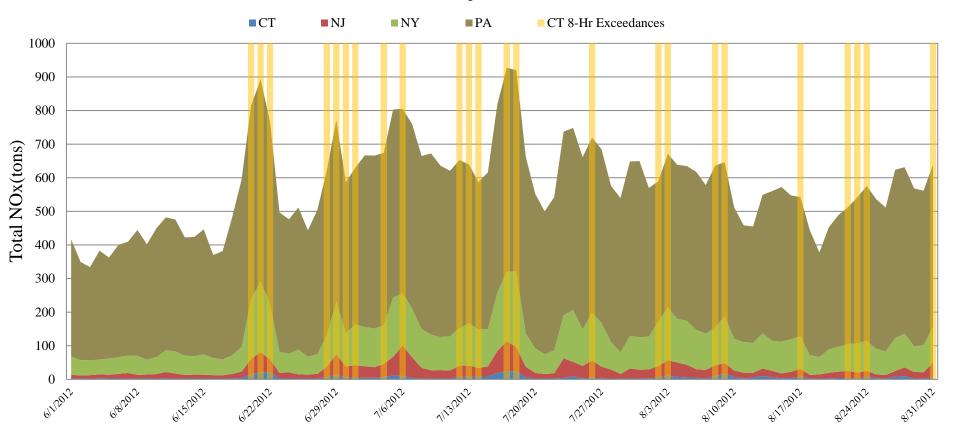


*May include large industrial sources Data Source: http://ampd.epa.gov/ampd/

Magnitude of Peak Day EGU* Emissions Differs by State

Daily Total EGU* NOx Emissions for CT, NJ, NY and PA

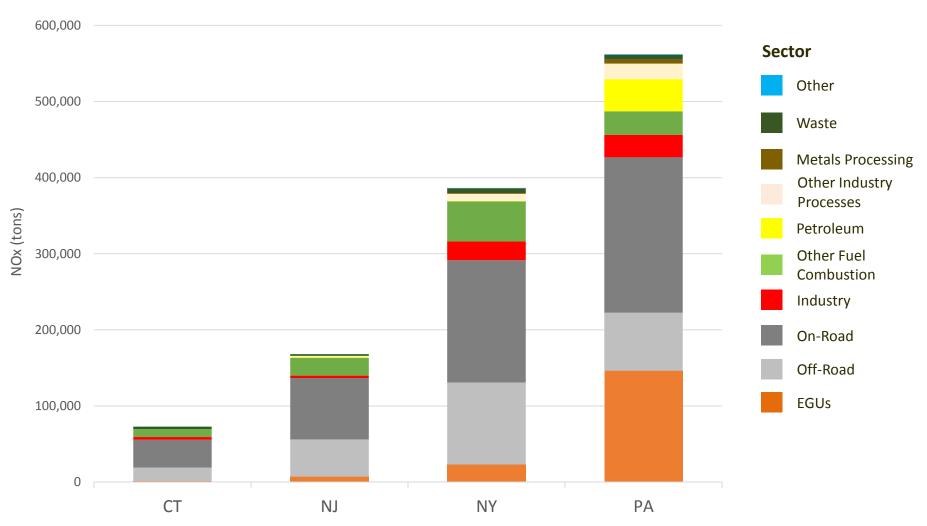
June - August, 2012





*May include large industrial sources Data Source: http://ampd.epa.gov/ampd/

2011 Annual Total Emissions by Sector for CT, NJ, NY and PA





Shared Responsibility – a level playing field

- CT will continue to adopt reasonable measures and continue reducing energy demand through RE/EE investments
- Upwind states (inside and outside of OTR)
 - HEDD reductions
 - Optimize existing controls/install new controls
 - Mobile source strategies SmartWay®, aftermarket catalyst
- EPA must take timely action
 - Good Neighbor Requirements
 - Transport rule
 - Mobile Source reductions
 - Tough on state RACT SIPs



Strong Leadership at New Jersey DEP





We're Making Good Progress but...

- Not attaining the current ozone standard
- New, tighter standard is highly likely
- Status quo approach won't bring us healthy air
- Need to start looking at non-conventional programs



California Dreaming

- Carl Moyer Program
- Public Agency PEV Rebate Program
- Voucher Incentive Program (VIP)
- Port of LA Clean Air Action Plan
 - Environmental Ship Index Program
 - Vessel Speed Reduction Program
 - Clean Truck Program
 - Alternative Maritime Power
- Marine Repower and Retrofit





Thank You

